

Tulin, V.A.

S/006/60/000/008/001/001 B012/B051

AUTHOR:

None given

TITLE:

Chronicle

PERIODICAL:

Geodeziya i kartografiya, 1960, No. 8, pp. 72-77

TEXT: From May 10-14, 1960 the shestoye Mezhduvedomstvennoye soveshchaniye po gravimetrii (Sixth Interdepartmental Conference on Gravimetry) was held in Moscow. It was convened by the geodezicheskaya sektsiya Komiteta geodezii i geofiziki Akademii nauk SSSR (Section for Geodesy of the Committee of Geodesy and Geophysics of the Academy of Sciences USSR) and the Aerogravimetricheskaya laboratoriya Instituta fiziki Zemli AN SSSR (Laboratory for Aerogravimetry of the Institute of Physics of the Earth of the AS USSR). 216 representatives of 64 organizations took part in this conference: production organizations, research centers, testing and construction organizations, educational institutions, and organizations of the Akademiya nauk SSSR (Academy of Sciences USSR), Sibirskoye otdeleniye AN SSSR (Siberian Department of the

Card 1/6

S/006/60/000/008/001/001 B012/B051

AS USSR), Akademii nauk Ukrainskoy, Gruzinskoy, Litovskoy i Azerbaydzhanskoy SSR (Academies of Sciences of the Ukrainskaya, Gruzinskaya, Litovskaya, and Azerbaydzhanskaya SSR), Ministerstvo vysshego i srednego specsial nogo obrazovaniya SSSR (Ministry of Higher and Secondary Special Education of the USSR), Ministerstvo geologii i okhrany nedr SSSR (Ministry of Geology and Preservation of Mineral Resources), Komitet standartov, mer i izmeritel'nykh priborov pri Sovete Ministrov SSSR (Committee on Standards, Measures, and Measuring Instruments of the Council of Ministers USSR), NII VTS, Gosudarstvennyy Komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (State Committee on Automation and Machine Construction of the Council of Ministers USSR), as well as representatives of the factories of the Moskovskiy sovnarkhoz (Moscow Sovnarkhoz) and the Leningradskiy sovnarkhoz (Leningrad Sovnarkhoz) that produce gravimetric apparatus. 70 lectures were held. I. D. Zhongolovich (Institut teoreticheskoy estronomii AN SSSR (Institute of Theoretical Astronomy of the AS USSR) spoke about the "Experience With Determining Some Parameters of the Gravitational Field of the Earth From Observations of the Second and

Card 2/6

S/006/60/000/008/001/001 B012/B051

Third Artificial Satellites. B. M. Yanovskiy (VNIIM) spoke about "The Determination of the Absolute Value of Gravitational Acceleration of the Point of VNIIM in Leningrad". M. Ye. Kheyfets spoke about the "Highprecision "Pendulum Apparatus of the TSNIIGAik", V. A. Tulin about "Portable Quartz Clocks", L. A. Gerenburg about "Questions of Time Recording in Pendulum Measurements", G. M. Mininzon, T. M. Ayrapetyan, and M. S. Davydov about the "Portable Gravimeter-altimeter TBH-1 by (GVP-1)", K. Ye. Veselov about the "Design of a High-precision OF Gravimeter", Yu. D. Bulanzhe (IFZ AN SSSR (IFZ AS USSR)) about "The Main Working Directions in the Field of Determining VGravitational Acceleration on the Sea", V. A. Romanyuk about "The Theory of Determining Gravitational Acceleration on the Sea by Means of Gravimeters", A. M. Lozinskiy about "String Sea Gravimeters" M. S. Molodenskiy (TsNIIGAik) investigated in his lecture tolerable errors already published in reports or submitted for publication by some authors. Among these are papers by I. F. Monin (L'vovskiy politekhnicheskiy institut (L'vov Polytechnic Institute)), A. K. Malovichko (Permskiy Gosudarstvennyy universitet (Perm' State University)), and S. V. Gromov (Leningradskiy Gosudarstvennyy universitet

Card 3/6

S/006/60/000/008/001/001 B012/B051

(Leningrad State University)). L. A. Govorova spoke about "The Errors of Interpolation of Gravity Anomalies and the Accuracy of Determining Gravimetric Deflections of the Vertical", B. A. Bryusov (MGU) about "Errors of the Representation and Interpolation of Gravitational Anomalies". S. N. Shcheglov reported on "Preliminary Results of Geodetic and Gravimetric, Work in the Antarctica", Yu. N. Avsyuk on the "Structure of the Earth Crust in the Antarctica According to Seismo gravitational Data", S. A. Ushakov on "The Structure of the Zaith Crust in the Antarctica According to Gravimetric, Data". P. S. Zakatov (MIIGAik) spoke about the "Preparation and Use of Gravimetric Experts". The recommendations given by the Conference are mentioned. From April 19 to 22, 1960 a Scientific and Technical Conference of the Worker: of the Topographic-geodetic and the Surveying Service of the Jlavneye Upravleniye geologii i okhrany nedr pri Sovete Ministrov Ukrainskoy SSR (Main Administration of Geology and Preservation of Mineral Resources of the Council of Ministers Ukrainskaya SSR) was held in Artemovsk. There, the state of the Glavgeologiya USSR (Glavgeologiya UkrSSR) and the introduction of new

Card 4/6

S/006/60/000/008/001/001 B012/B051

techniques and technology in production were discussed. At the Conference it was stated that the extent of the work mentioned will be considerably increased within the next seven years. Furthermore, the following drawbacks were pointed out: The methods applied are too extensive and expensive, the geological organizations are insufficiently equipped with new apparatus; in geological observations the aerophotographs and topographic plans available on a large scale are not sufficiently used. This state is explained by inefficient technical direction, inefficient technical and material supply, by a lack of suitable direction in the Glavgeologiya UkrSSR and the Ministerstvo geologii i okhrany nedr SSSR (Ministry of Geology and Preservation of Mineral Resources of the USSR). Recommendations are given to improve this situation. For improving the qualifications of the workers the Conference suggested to convene scientific and technical conferences at regular intervals. For improving information and for the exchange of experience the editorial board of the present periodical was asked to furnish a section for topographic and geodetic work in geological observations. The participants in the Conference appealed to the workers

Card 5/6

S/006/60/000/008/001/001 B012/B051

of the topomarksheyderskaya sluzhba Glavgeologii USSR (Topographic and Surveying Service of the Glavgeologiya UkrSSR) to do everything possible in order to carry out the resolutions of the 21st Party Congress of the CPSU and the Plenum of the Central Committee of the CPSU in June.

Card 6/6

C. TULIN, V.A.

The GAE-4 gravimeter. Trudy Inst. fiz. Zem no. 29:85-93 163.

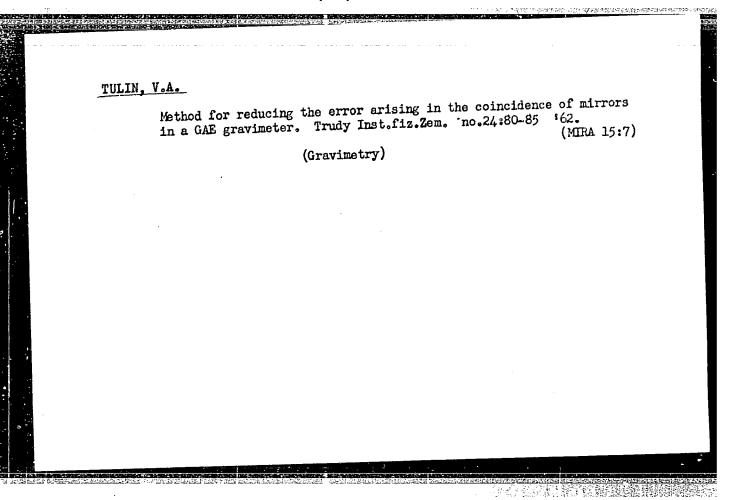
Effect of the external temperature on the elastic system of a GAE-3 gravimeter. Ibid.:94-101

Analysis of two circuits for measuring slight temperature changes. Ibid.:102-111

Comparative evaluation of thermostats with different principles of action. Ibid.:112-121

Instrumental and field precision of a quartz gravimeter with horizontal torsion suspension. Ibid::122-133

Practice of making a precise field thermostat using mercury contact thermometers. Izv.AN SSSR.Ser.geofiz. no.8:1056-1059 (MIRA 15:8) Ag '62. 1. Institut fiziki Zemli AN SSSR. (Thermostat)



"APPROVED FOR RELEASE: 03/14/2001

Card 1/2

CIA-RDP86-00513R001757410018-7

· 公司法法國主義法院。第27

EWT(1)/EWP(e)/EWT(m)/EEC(k)-2/EWP(h)/EWA(h) GW/WH SOURCE CODE: UR/0270/65/000/006/0030/0031 ACC NR: AR5014703 AUTHOR: Bulanzhe, Yu.D.; Popov, Ye.I.; Tulin, V.A. ORG: none TITIE: Automatic processing of gravimetric observations SOURCE: Ref. zh. Geodeziya. Otdel'nyy vypusk, Abs. 6.52.194 REF SOURCE: Sb. Vychisl. tekhn. v upravlenii. M., Nauka, 1964, 212-215 TOPIC TAGS: gravimetry, gravimeter, gravimetric analysis, aerial survey, data processing TRANSIATION: The Aerogravimetric Laboratory of the Institute of the Physics of the Earth of the SSSR Academy of Sciences has developed a strongly damped gravimeter, based on the elastic properties of twisted quartz glass thread. 15 The measurement of 25 the force of gravity acceleration is made by the variation of the thread angle of twist. It is determined by the deflection angle of the pendulum. The instrument is used in naval gravimetry survey on submarines and surface ships, as well as for experimental work on aircraft. The time spent for processing of recordings, during which the effect of turbulent accelerations is excluded, significantly exceeded the time of observation. The special features and the conditions for automatic processing

L 32563-66

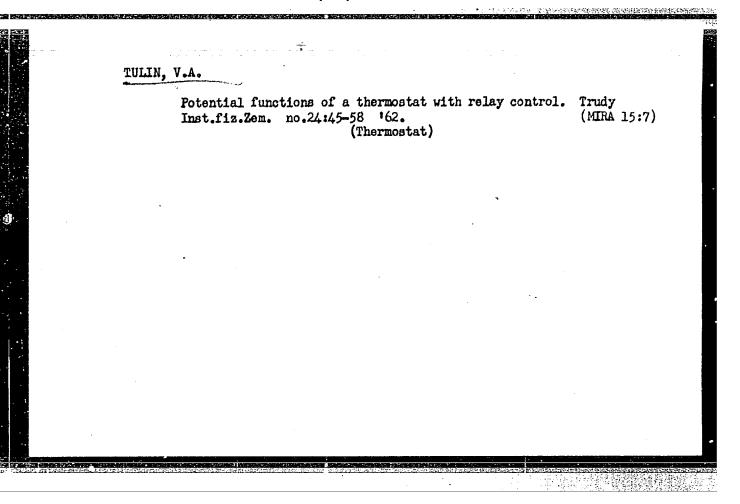
ACC NR: AR5014703

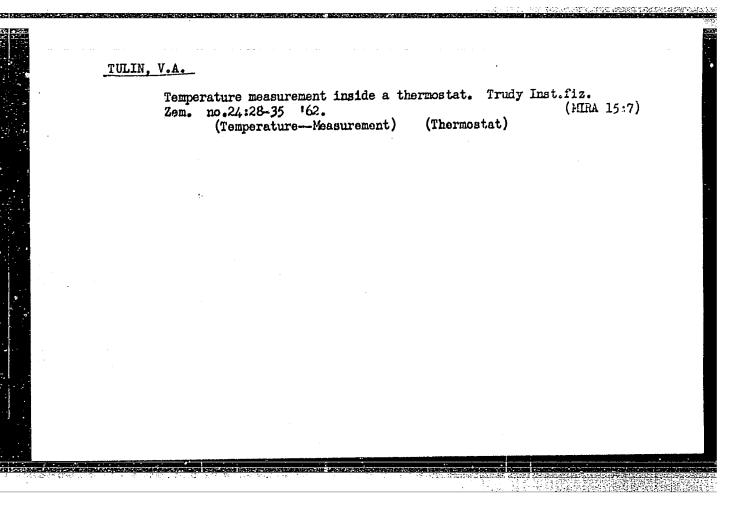
of gravimetric data were studied. By observation from low-speed submarine or surface vessels, the automatic computor has only to perform the operation of averaging the record for a given period of time. In observation from an airplane the functions of the computor are more complex. Computing slipping average values of gravimeter indications or the current values of integral from the function, which represents the motion of elastic system pendulum in time, can be considered as a preliminary problem in this case. The device transforming the movement of the gravimeter pendulum into an analogy or code system must have an accuracy of 2'.5. The most comprehensive way of taking readings is the method in which the measurement unit of the pendulum swing is the change of the distance between two blocks, reflected from the elastic system speculum. Other known methods (for example the volume one) will hardly secure the necessary accuracy.

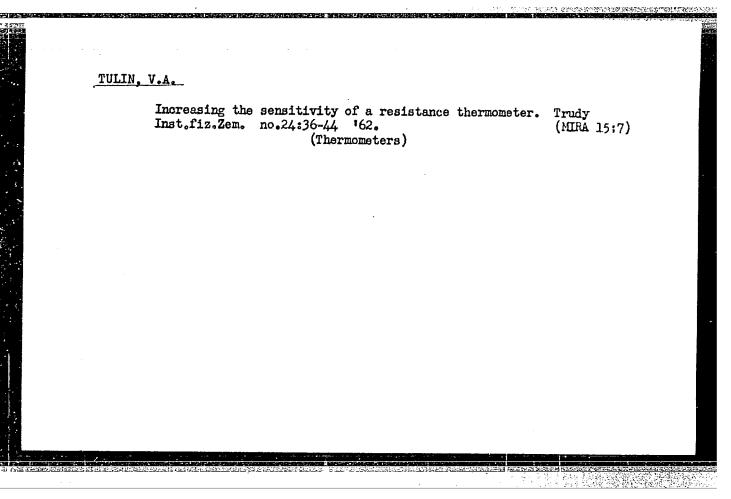
B.U.

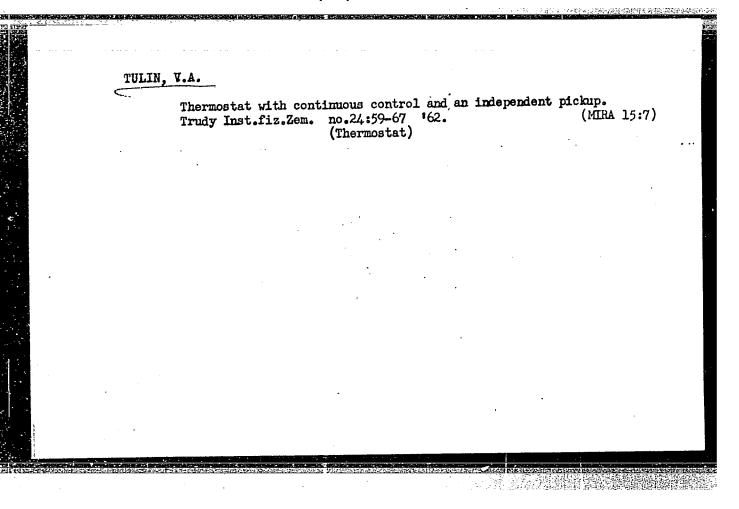
SUB CODE: 09, 08

Card 2/2 20



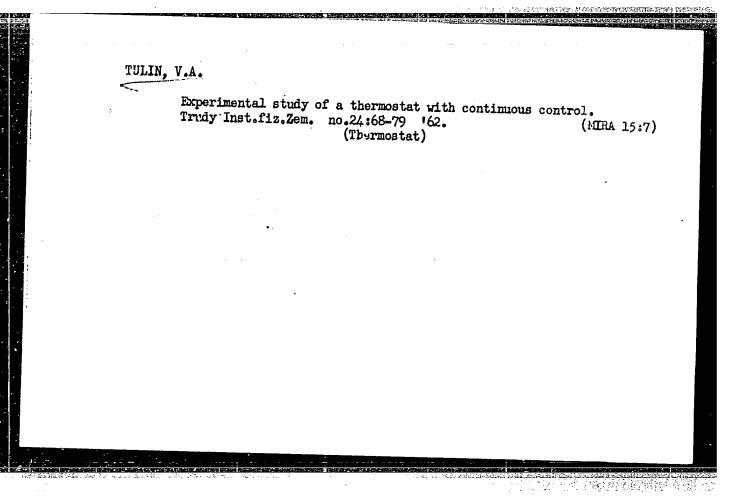






001 CIA-RDP86-00513R001757410018-7

TAKU.



Tulin, V.A.

PHASE I BOOK EXPLOITATION SOV/3681

Institut fiziki zemli Akademiya nauk SSSR.

Voprosy instrumental noy gravimetrii; [sbornik] (Problems of Instrument Gravimetry; Collection of Articles) Moscow, Izd-vo AN SSSR, 1959. 76 p. (Series: Its: Trudy, No. 8/175/) Errata slip inserted. 1,500 copies printed.

Ed.: Yu. D. Bulanzhe, Doctor of Physical and Mathematical Sciences; Ed. of Publishing House: V.G. Berkgaut; Tech. Ed.: Yu.V. Rylina.

This publication is intended for geophysicists, physicists, hydrographers, geodesists, and navigators. PURPOSE:

COVERAGE: This is a collection of eight articles dealing with gravimetric instruments used in oceanographic investigations. Descriptions of the instruments and data on test results are given. No personalities are mentioned. References appear at the end of some of the articles.

card 1/4

Problems of Instrument Gravimetry (Cont.)

sov/3681

TABLE OF CONTENTS:

Aleksandrov, Se.Ye., V.U. Sukhodol'skiy, and Yu.P. Izmaylov.

New Pendulum Instrument for Determining the Gravitational

Force on the Ocean

The article gives a description of the MShP (Marine Pendulum Instrument) developed by the Institut fiziki zemli AN SSSR (Institute of Terrestrial Physics, Academy of Sciences USSR). The instrument has six quartz pendulums distributed in groups of three on two parallel planes and is also equipped with a set of special pendulums for measuring incline and acceleration. Technical characteristics of the instrument and data on test results are given.

Tulin, V.A. Quartz Clock for Pendulum Measurements of Gravitational Porce on the Ocean 25

The article gives a description of a portable quartz clock used for gravimetric pendulum measurements. Methods of utilizing separate units and the operation of the instrument as a whole are described. Rate curves for clock under

Card 2/4

Problems of Instrument Gravimetry (Cont.)

SOV/3681

laboratory and actual conditions are presented.

Popov, Ye.I. Quartz Gravimeter for Observations on the Ocean. 32 A description is given of a quartz gravimeter of new design with photographic recording of the readings. Strong damping of its elastic systems makes observations possible while moving if the instrument is installed in a

Sukhodol'skiy, V.V. Instrument RNU for Recording incline and Acceleration in Gravimetric Determinations on the Ocean In addition to the recording of incline and acceleration, the instrument makes galvanometric recording of vibrations which are converted into electrical oscillations by means 42 of suitable transmitters. Data obtained during expeditions to determine the nature of vibrations, inclines and accelerations acting on the decks of a diesel-electric ship and the expedition vessel "Mikhail Lomonosov" are presented. Card 3/4

Quartz clock for Inst. fiz. zem. (Clocks	pendulum determinations no.8:25-31 159 and watches)	of gravity at (MIRA 13:	sea. Trudy
- -			
	,		
			ij.

40016

8/035/62/000/008/077/090

A001/A101

9,6160

AUTHOR:

Tulin, V. A.

TITLE:

. A method for reducing the error in superposing the mirrors of the

TA9 (GAE) gravimeter

PERIODICAL:

Referativnyy zhurnal, Astronomiya i Geodeziya,no. 8, 1962, 25, abstract 8G214 ("Tr. In-ta fiz. Zemli AN SSSR", 1962, no. 24,

80 - 85)

TEXT: The Institute of Physics of the Earth, AS USSR, has designed and constructed the working model of a photoelectronic attachment in order to increase the accuracy of reading g_r on GAE gravimeters. This attachment makes it possible to determine the superposition of blinks from the mobile and fixed mirrors of the elastic system on the galvanometer scale with an error of ~ 0 . To weaken the effect of pendulum vibrations in the elastic system, an integrating circuit is provided in the galvanometer circuit, which causes electric damping of the galvanometer pointer. The photoelectronic attachment is described, and test results under laboratory conditions are presented. In the range of 1,000 mgal the read-

Card 1/2

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757410018-7

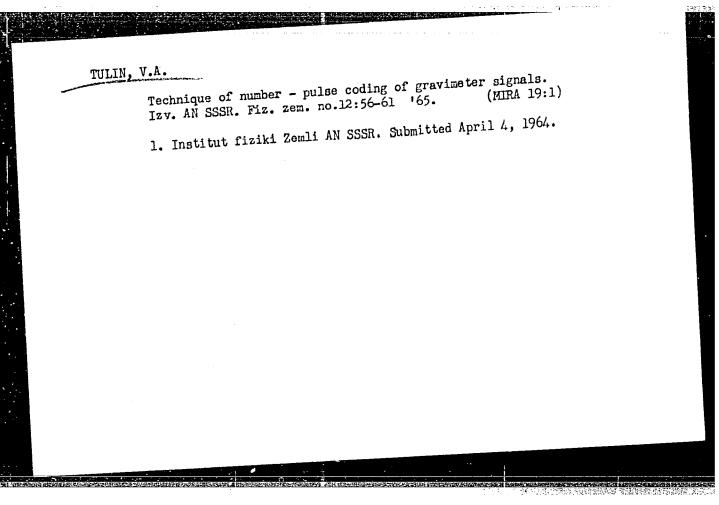
A method for reducing the...

ing error g_r turned out to be within ±0.03 mgal. The proposed method of recording can be applied in any gravimeter in which reading is made by means of a mobile and a fixed mirror.

P. Shokin

[Abstracter's note: Complete translation]





BOROVIK.ROMANOV, A.S.; TULIN, V.A.

Mixed electron-nuclear resonance in the antiferromagnet
Mn(03. Pis'. v red. Zhur. eksper. i teor. fiz. 1 no.5:18-22
Je '65.

(MIRA 18:11)

1. Institut fizicheskikh problem imeni Vavilova AN SSSR.
Submitted April 22, 1965.

14495-66 EWT(1)/EWP(e)/EWT(m)/EWP(b) GS/GW/WH SOURCE CODE: UR/0000/65/000/000/0003/0017
RCC NR:
To Tulin, V. A.
ORG: none TITLE: A marine gravimeter with photoelectric micrometer Apparatura i metody morskikh gravimetri-
SOURCE: AN SSSR. Institut fiziki Zemithods of marine gravimetric distance of marine gravimetr
TOPIC TAGS: gravimeter, oceanic gravimeter, photoelectric micrometer Topic TAGS: gravimeter, oceanic gravimeter, photoelectric micrometer, photoelectric micrometer
ABSTRACT: The authors describe the first model of an instrument they have describe the first model of an instrument they have describe the first model of an instrument they have describe the first model of an instrument they have described in an approximation and a spring system based ed for measuring gravity acceleration compensation and a spring system based quartz gravimeter with liquid temperature compensation and a spring system to the sensor for changon the elastic properties of twisted filaments. This system to which a quartz on the elastic properties of twisted filaments. This system to which a quartz on the elastic properties of twisted filaments. The pendulum and mirror arrangement is estimated about 100 µ in diameter is fastened. A pendulum and mirror arrangement is thread about 100 µ in diameter is fastened. The moment created by the pendulum twists the welded to the middle of the thread. The moment created by the pendulum and a square durative described through an angle of 300-500°. The spring system is housed in a square durative described through an angle of 300-500°. The spring system is housed in a square durative described through an angle of 300-500°.
Card 1/4

L 14495-66 ACC NR: AT6006258

lumin box which contains blocks made of this same material: one with the quartz system and the other with a stationary mirror. Each block is mounted on the bottom of the box on three screws and is held to the bottom by a pair of springs. The screws are used for controlling the position of the blocks with respect to the housing. The top of the box is hermetically sealed with a cover containing a planeparallel protective glass over the mirrors. Four screws projecting from this cover are used for fastening the framework of the optical system. Cylindrical plugs along the edges of the cover allow access to the adjustment screws. The range of the spring system is adjusted by one of these screws. The housing is filled with a damper for natural oscillations of viscous silicone liquid, which acts and acceleration the pendulum and for vibrations caused by disturbing tilts and also compensates for variations in the position of the pendulum caused by changes in the temperature of the system. A diagram of the instrument is shown in Fig. 1. An optical system with a photoclectric micrometer is used for measuring the angle between the mirrors. The galvanometer in the photomultiplier circuit is adjusted so that it gives a zero reading when the bright spot is completely covered by screen 7 and a full-scale reading when the bright spot is completely uncovered. Thus, the visible width of the spot is magnified to the dimensions of the galvanometer scale.

Card 2/4

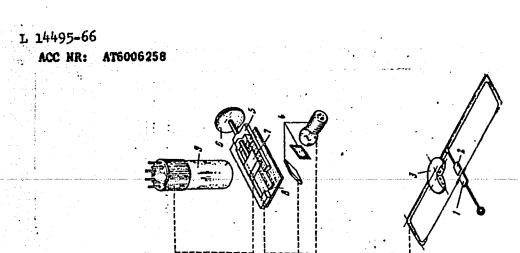
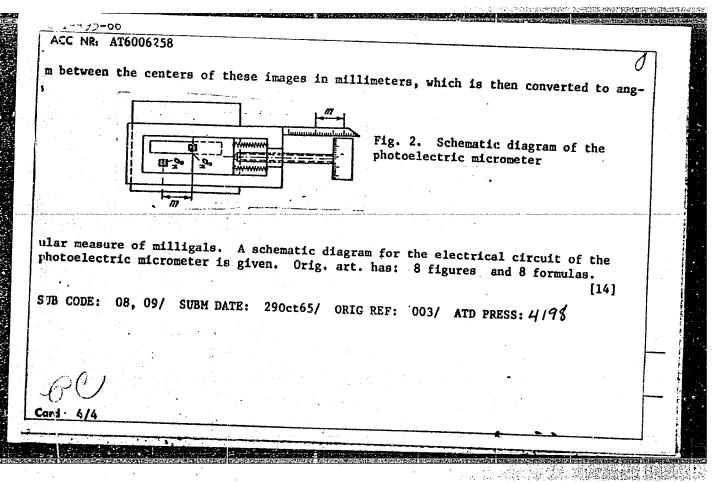


Fig. 1. Schematic diagram of the gravimeter with photoelectric micrometer: 1-movable mirror in the spring system; 2--stationary mirror rigidly fastened to the
frame; 3--lens; 4--lamp with iris and mirror; 5--base of the photoelectric micrometer; 6--micrometer screw with reading device; 7--cover screen; 8--spot baffle;
9--photomultiplier.

The rectangular images from mirrors 1 and 2 are reflected onto screen 7 in the form of rectangles $\delta_{\rm H}$ and $\delta_{\rm M}$ (see Fig. 2). The micrometer screw measures the distance Card 3/4



€.	R: AT7006525 (N) SOURCE CODE: UR/0000/66/000/00079/0097	7
	R: Bashilov, I. P.; Konovalov, V. A.; Tulin, V. A.	
ORG:	None	
TITLE	Computer for a marine gravimeter with an optical-mechanical converter	
more i	i: AN SSSR. Institut fiziki Zemli. Pribory dlya opredeleniya sily tyazhesti na ikh issledovaniye (Instruments for determining the force of gravity at sea eir analysis). Moscow, Izd-vo Nauka, 1966, 79-97	
OPIC ation raphi tate	TAGS: gravimeter, marine equipment, and the gravity, gravity, gravity, gravitation field, surth science instrument, comment adder, electronic computer, special purpose computer, solid computer, computer application, computer delice.	
BSTRAG etry (umber aborag pplica herefo	The vacuum tube computer developed by the Division of Experimental Gravi- of the Institute of Physics of the Earth, AN USSR, for summing a predetermined of ordinates, to be used with the marine gravimeter could only be used for cory investigations because its power requirements were too high for most field itions. The Division and the Institute's Electronic Automation Laboratory or joined forces to develop a semiconductor version of the same device, leaving cuitry unchanged. The device has the following basic	;
rd_1/	2	

	AT7006525	5			•			
time is (3) meas seconds magnetic sults us supply she dev	set manu suring fr ; (5) inf c tape in sing comp from 12 v ice are p	ally beforequency; ormation parallelutors; ((olt batte	ore the fir 100 kc; (4) output: li 1 13-bit bi 6) beginnin	rst measure) measureme ight displa inary code ng of readi	ment; (2) nt error o y in binar for subseq ng set by	nds, by 10 adder caps f time in y decimal uent check operator s	nd; 1.0-9 seconds. acity 108 puterval not code, as we cing of averanually; (7 matic diagraeribed in de	Summation class; over ±10-5 class to raging re- or power ms of tail.
	•••		ione/ORIG R				F M Y	N-67-3] [29]
34 1	oy oou	A PM TP! U	roue/okig K	EF: 004				[29]
							•	
	•						•	
			•		•			ļ
				. 1		`,: ,: :		-
							:	
				nji (Marin)				

ACC NR. AT7006528

(N)

SOURCE CODE: UR/0000/66/000/000/0145/0159

AUTHOR: Tulin, V. A.

ORG: Cone

TITLE: Installation for quartz resonator research

SOURCE: AN SSSR. Institut fiziki Zemli. Pribory dlya opredeleniya sily tyazhesti na more i ikh issledovaniye (Instruments for determining the force of gravity at sea and their analysis). Moscow, Izd-vo Nauka, 1966, 145-159

TOPIC TAGS: gravimeter, marine equipment, continuenty, gravimetry, gravimetry, gravimetry, gravimetry, gravimetry, gravimetry, gravimetry, gravimetry, commenced process, resonator, resonator Q factor, temperature coefficient, the most at

ABSTRACT: Quartz resonators are widely used as timers for pendulum gravimetry observations. Since resonators must be maintained at a constant temperature in order to maintain the required accuracy, the curve of change in the temperature frequency coefficient is an extremely important parameter for stable resonator operation. A device for simultaneous testing of four resonators is described. It can be used to record temperature coefficient curves within temperature ranges between room. temperature and 85°C for four resonators simultaneously. The minimum step in temperature change is approximately 0.1°C but any greater step is possible. This device

Card 1/2

elements 1 table.	llator c of the	ircuit device	e resonators and to d vice consists of a th elements which requi are described in det	House Containin	atures. T atures. T as: 5 fig	nators and he various ures and
SUB CODE	08/SUB	M DATE:	None/ORIG REF: 001		ι	WA N-67-3] [29]
•					•	
				•		
				•		İ
•						
				•	•	
						ľ

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757410018-7"

KAPLAN, A.Yu.; KARAPETYAN, G.B.; TASKIMBAYEV, Ye.T.; TULIN, V.K.; SOSNOV. G.Ye.

Comments on G.V. Molchanov's article "Trends in the efficient construction of units for underground repair of wells" ("Neftiance Khoziaistvo" No.1, 1962.) Neft. khoz. 40 no.7:53-55 Jl '62. (MIRA 17:3)

1. Ob"yedineniye kazakhstanskoy neftyanoy promyshlennosti (for all except Sosnov). 2. Leninneft' (for Sosnov).

Yanishevskiy, Use of diffusion ourvoying for vaniye oroolo gidrotermal'n Izd-ro "Nedra (At head of to oditor: for Shmakova; Pre TOPE TAGS: ge- uranium diffusion	aureoles of uranium hydrothermal uranium rasseyaniya urana ykh uranevykh mester ", 1964. 194 p. ill itle: Gesudarstvenny he publishing houses of reader: A. A. Sive cohemical prospecting aureole, radiometra ore deposit	aranov, E. N.; Bogoly and associated eleman deposits; methodolo i elemantor-sputnikov ochdeniy; metodichesk us., biblio., append. y geologicheskiy komi F. N. Chumakova; Toc akova g, hydrothermal urani ric anomaly, secondar	nts in prospecting in handbook (Isp pri poiskakh i royo rukovodstvo) 2350 copies pri tet SSSR). Managhnical editor: Tam deposit, primar uranium diffusical editors to the company and the lagrange of the lagr	y and oliso- azvedke doscow, ntede ing M.	
PURPOSE AND COV	bution of uranium an	d associated olements	TH CUG THATEOURS	_ '	
ning the distri	ERAGE: The purpose bution of uranium an	UDC: 553-L95:552			
PURPOSE AND COV ning the distri	bution of uranium an				
ning the distri	bution of uranium an				
ning the distri	bution of uranium an				
ning the distri	bution of uranium an				
ning the distri	bution of uranium an				

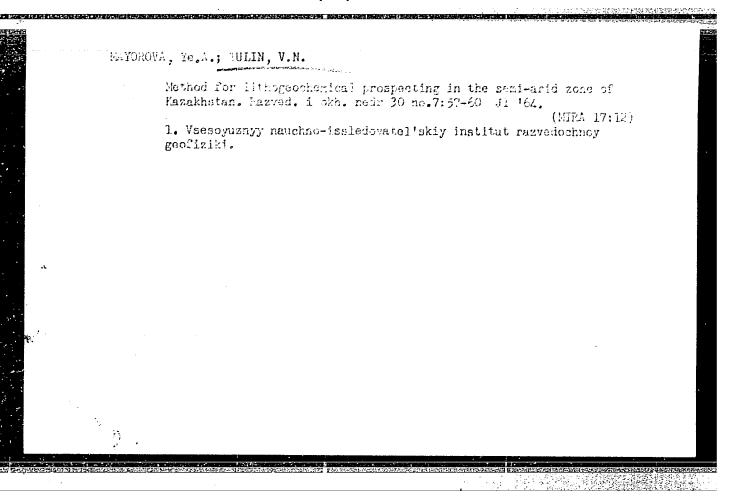
	around hydrothermal uranium-ore bodies and in the river deposits above them; to demonstrate the possibility, the role, and the place of geochemical methods in solving such problems; and to describe the results of work on the development of primary and secondary diffusion surecles of uranium and its associated elements. In addition to their own work, the authors used data from A. G. Vetroy, N. A. In addition to their own work, the authors used data from A. G. Vetroy, N. A. Voroshilov, V. S. Golinsov, O. D. Gorbunov, M. Ia. Dar, V. M. Konstantinor, M. Voroshilov, V. S. Golinsov, O. D. Gorbunov, M. Ja. Dar, V. M. Konstantinor, M. Kutenkov, L. T. Mishin, Ye. A. Sizov, and others, Most of the spectral and luminoscont analyses were performed by L. F. Davydova, Yu. T. Donets, B. M. Yelovov. E. V. Mozolevskaya, and R. V. Timofeyeva,	•
	TABLE OF. CONTENTS: Foreword (A. P. Solovov) = -3 Int@oduction = 6 Ch. I. Ore bodies and primary aureoles of hydrothermal uranium deposits = 9 Ch. II. Secondary aureoles and diffusion fluxes = 49 Ch. III. Secondary aureoles and diffusion fluxes = 78 Ch. III. Kethodology and technique of field and laboratory research = 78 Ch. IV. Application of geochemical methods in prospecting for hidden are	
₩.	Ch. 14. Application of Bosses	
	bodies - 119	
	bodies Hy	
	Card 2/3	
	bodies Hy	
	bodies Hy	
	bodies Hy	ur/
	bodies = 119 Card 2/3	ur/
	bodies Hy	ur/

Ch., Cond	ranium-ore of VI. Role of clusion	161 <u>.</u> 190	thods in the	prospecting	o omplez: ⊶	- 145		
SUB	CCDZ: 08	/SUBM DATE: (09Ju164 /SOV 1	REF:084	OTH RE	F1011		
		•						٤ .
	•					i i	.	-1
		•	·	•			.	
	13/3					· · · · · · · · · · · · · · · · · · ·	<u>.</u>	**************************************
Care								#
							•	
		• ,						
			·					

SOCHEVANOV, N.N.; KABLUKOV, A.D.; BARANOV, E.N.; BOGOLYUBOV, A.N.; VFRTEPOV. G.I.; CRIGORYAN, S.V.; MAYOROVA, Ye.A.; RAZUMOVSKIY, N K.; TULIH, V.N.; YANISHEVSKIY, Ye.M.; SOLOVOV, A.P., red.

[Using dispersion halos and accompanying elements in prospecting for hydrothermal uranium deposits; methodological handbook] Ispol¹zovanie oreolov rasseianiia urana i elementovsputnikov pri poiskakh i razvedke gidrotermal¹nykh uranovykh mestorozhdenii; metodicheskoe rukovodatvo. Moskva, Nedra, 1964. 194 p. (MIRA 17:9)

1. Russia (1923- U.S.S.R.) Geologicheskiy komitet.



TULIN V. S.		PA 49777	
	USER/Petroleum - Well Drilling Jan 1947 Petroleum Industry	.	
	"Moment of Cyration in the Drilling of Petroleum Wells," Y. S. Tulin, 32 pp		
	Mergeticheskiy Ryull No l		:
	Most widely used method for drilling is by means of rotary drill. In this case, however, if too much pressure is applied to the bit the bore is liable to diverge from the vertical and go off at uncontrollable angle. Therefore, author shows advantages of using low bit pressure and suggests several methods to secure this.		-
	20		
	. •		

TULIN, V. S.

PA 16T73

USSR/Drilling Michinery Tools, Electric

May 1947

"Electric Drilling Equipment - 1947 Models" V. S. Tulin, 8 pp.

"Energeticheskiy Byulleten'" No 5

Discusses technical improvements made in high voltage switchboard, drill transformer of the TB - 300 type, electric drill motor, electric pump motor, drill station, controller, feed regulator, control panel, control wheel.

16173

Flectric drive in mining in the U.S.S.H. for thirty years. Vest.elektroprom.
18 no.11:25-28 H '47.

1. Proyektno-vosstanovitel'nyy trest MEP.

(Electricity in mining)

TULIN, V. S.

TULIN, V. S. I KULIZADE, K. N.

29041 Osnoviye zadachi teorii i praktiki elektroprivoda v neftyanov promyshlennosti. Izvestiya ikad. na*k. Azerbaydzh. SSR, 1949, No 8, S. 7-17—Rezyume na azerbaydzh. yaz.

SO: Letopŝi' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

- 1. TULIN, V. S.
- 2. USSR (600)
- 4. Mine Hoisting
- 7. Remarks to A. N. Golubentsev's article "Increasing the efficiency of hoisting machinery and some problems of the theory of mine hoisting." (Ugol' 52, no. 11). Reviewed by V. S. Tulin. Ugol' 27 no. 12, 1952.

9. Monthly List of ussian Accessions, Library of Congress, March 1953, Unclassified.

ASU-11 synchronizers. Elek. sta. 25 no.6:59 Je '54. (MERA 7:7)

(Electric machinery)

 f_{222} and f_{3} and f_{4} and f_{5}

Subject : USSR/Electricity

AID P - 2943

Card 1/1 Pub. 27 - 8/15

Author

: Tulin, V. S., Eng.

Title

: Contemporary tendencies in using electric drives in the mining industry

Periodical: Elektrichestvo, 8, 57-62, Ag 1955

Abstract: The author presents a review of electric drives used in the mining industry. He discusses in detail the technical trends in that field in coal, ore and petroleum mining. He presents the various types of drives with their technical data in tabulated form drives with their technical data in tabulated form. Four tables, 3 photographs.

Institution: Central Design Bureau of the Ministry of the Electrotechnical Industry

Submitted : My 9, 1955

FILIN, N.M.; TULIN, V.S.; CHULIKIN, M.G.; GOLOVAN, A.T.; PETROV, I.I.;

MOROZOV, T.P.; VESHENEVSKIY, S.N.

Engineer N.A.Tishchenko. Elektrichestvo no.3:89 Mr '56.

(Tishchenko, Nikolai Afanas'evich, 1906-) (MIRA 9:6)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757410018-7"

TISHCHEMKO, N.A., inzh.; TULIN, V.S., inzh.

Development of electric drives during the past 40 years in the Soviet Union. Elektrichestvo no.11:16-24 N '57. (MIRA 10:10)

1.TSentral'noye konstruktorekoye byuro "Elektroprivod" (for Tishchenko). 2.Gosplan SSSR (for Tulin).

(Electric driving)

KULEBAKIN, V.S.; LARIONOV, A.N.; CHILIKIN, M.G.; GOLOVAN, A.T.;

MOROZOV, D.P.; KURBATOVA, N.S.; KORITSKIY, A.V.; VESHENEVSKIY,

S.N.; TISHCHENKO, N.A.; TULIN, V.S.

Doctor of Technical Sciences I.I. Petrov. Elektrichestvo no.12:
83 D '57.

(Petrov, Ivan Ivanovich, 1907-)

(MIRA 10:12)

IVANOV, Anatoliy Aleksandrovich; TULIN, V.S., doktor tekhn. nauk, retsenzent; BLAZHKIN, A.T., doktor tekhn. nauk, retsenzent

[Theory of automatic control and regulation] Teoriia avtomaticheskogo upravleniia i regulirovaniia. Moskva, Izd-vo "Nedra," 1964. 328 p. (MIRA 17:8)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757410018-7"

TULIN, V.S.

AUTHOR: N.M.

90-58-7-8/8

TITLE:

All-Union Scientific and Technical Conference on the Electrical Equipment in Buildings and Outside Installations Liable to Explosions (Vsesoyuznoye nauchno-tekhnicheskoye soveshchaniye po elektrooborudovaniyu vzryvoopasnykh pomeshcheniy i naruzhnykh ustanovok)

PERIODICAL: Energeticheskiy Byulleten', 1958, Nr 7, pp 29-33 (USSR)

ABSTRACT: The conference was held from 14-19 April, 1958 in Stalino and was convened by the Gosplan SSSR (State Planning, USSR) jointly with the Nauchno-tekhnicheskoye obshchestvo energeticheskoy promyshlennosti (Scientific and Technical Society of the Power Industry), the Moskovskiy dom nauchno-tekhnicheskoy propagandy im. F.E. Dzerzhinskogo (Moscow House of Scientific and Technical Propaganda imeni F.E. Dzerzhinskiy), Gosudarstvennaya inspektsiya po promyshlennoy energetike i energonadzora MES (State Inspection of Industrial Power and Power Supervision of the MES) and Institut Giproniselektroshakht. A total of 590 people took part in the conference and 36 reports were read including: V.S. Tulin, "State and 1959-1965 Development Plan for Research Work, Construction Projects and Production Card 1/3 of Explosion-Proof Electrical Equipment and the Problems of

90-58-7-8/8
All-Union Scientific and Technical Conference on the Electrical Equipment in Buildings and Outside Installations Liable to Explosions

Co-ordinating this Work"; V.Ye. Uleshchenko, Ya. M. Bol'sham, I.I. Rakovich "The Requirements in Electrical Equipment for Buildings Liable to Explosions"; representative of the Plants KHEMZ, Elektrosila and imeni Karinin "Designing Single Series of Hermetic Electric Motors"; P.F. Kovalev, "The Use of Electric Power in Gas and Dust Infested Buildings, and the Planning of Common Rules for Preparing Electrical Equipment for Installations Liable to Explosions"; A.F. Pankrat'yev "Electric Motors for Buildings Liable to Explosions, According to Foreign Data"; P.A. Kolodochka, "Transformer Sub-stations Liable to Explosions"; N.N. Yudin, " Low Voltage Apparatus for Mines and Factory Installations Liable to Explosions"; A.S. Tsibarov, "High Tension Compartments for Buildings Liable to Explosions"; L.A. Sal'tsevich and A.S. Zusman, "Electric Lighting Equipment for Buildings Liable to Explosions". The case for explosion-proof electrical equipment in the oil and gas industries was put forth by: V.Ye. Obrenskiy 'Novokuybyshev Oil Refinery), Ye.A. Venetsianov (Tsentroelektromontazh), N.S. Movsesov (Glavelektromontazh), B.A. Delibash (Tsentro-

Card 2/3

90-58-7-8/8

All-Union Scientific and Technical Conference on the Electrical Equipment in Buildings and Outside Installations Liable to Explosions

elektromontazh), M.F. Shidlovskiy (Giproneftezavod), V.V. Peyve (Giproneftezavod), P.I. Polikarpov (Syzran'Oil Refinery), A.Ya. Berg (Kuybyshev Oil Refinery) and A.A. Blekhman (Lengiprogaz). The work of investigatory organizations such as MakNII, VosNII, TsNII UPO and Giproniselektroshakht was summed up and the conference agreed that the electrical industry had failed in developing better explosion-proof equipment. Specific defects in machinery and installations, and also some improvements, are mentioned. The article lists proposals agreed on by the conference and intended for the guidance of plants of the electrical industry and research and experimental organizations during the 1959-1965 period.

Card 3/3

1. Electrical equipment—Conference
2. Electrical equipment
—Hazards
3. Electrical equipment—Safety measures

USCOMM-DC-55, 134

	1 h	<u>L1/</u>	<u></u>				_			·		. 	-							· .			-	
1	Δ.		Enthory. 2.1., and N.G. Nulkur, Engineers. For Electric Drive Systems for Drilling Oil and Use Wallet	Candidate of Technical Sciences, <u>F.C.</u> Repressant Oceans, <u>F.C.</u> Reliter, <u>and Sciences</u> , <u>A.C.</u> Sciences, and <u>A.C.</u> Zyror, Gardidate of Technical Sciences, and <u>A.C.</u> Zyror, Gardidate of Technical Sciences, antenatic Control Systems of the Main Electric Drive of Inclined and Fertical Saip Reliables	Crosty I.S. Believer, B.M. Cottin, Candidate of Technical Sciences, and C.M. Kobuyer, L.E. McLashars, and L.S. Labert Representations of Intro-Gastian and International State Systems for the Elevators in Superspars, Scaling Source, Industrial Building, and Structures* 18 Superspars, Scaling Source, Industrial Building, and Structures* 19 Martin, A.V., Frofesant, Doctor of Technical Science, and Structures*	Englis, S.S., Englaser. Electric Equipment of a Deep Drudge With a 600 Miser Capacity Scoop	•	Salar Trr. A.S., Engineer. Nagmetin Clatches in Antonated Mine Scientings 342	7	Daths. Age. Condides of Technical Sciences, and All Lifemor and I.Is. According to the Control of the Control	PACT, CATALOR RECORDED FORM OF LIGHT AND ANY OWNERS. PROCESS OF ELECTRIC PROPERTY OF CONTROL PROPERTY.	purts already published in journals or official publications have been considerably observated; these which have appeared in rollmes of NILEY transactions are in the journal Traditionators are marked with an asternite. No personalities	occiect attenuite cected systems, including systems with semiconductor desires end mapacits subjected to computer intends both for the analysis and the synthesis of linear and modileser entreastic regulation and content systems. So	aims used in various branches of industry. The bank problems of automated about the drive and their scheduler or called the book also contains articles on also trie methods yand seems of entomated. The book also contains articles on also trie methods yand seems of entomation. Considerable attention is reid to non-	It was the purpose of the Editorial Board to arrange the reports in a way which would ensure a relatively systematic presentation of theoretical art practical problems relating to describe and astrontic months.	of the headest of Sciences USS, and the Kenterly per technology of Sciences USS, and the Kenterly per technology of Sciences USS, and the Kenterly per technology of Facilities entry in the Landiture of the Science (Commission on the Technology of Facilities building of the Landiture of Science of Mechines of the Landiture of the Commission of the Landiture of the Commission of the Landiture of the Commission of the Commission of the Landiture of the Commission of the Commissi	Homohas-tathnichaskiy bunitet po attenutizitorunomu siatroprivatu (Scientific and Technical Committee on Attenuted Review Privat, the till the on Attenuted Review Privat, the till the control of the till the ti	Realist po aviousitastali i manimostroyeniyu (State Committee on hy on tion and Manitos Emiling) and the Maintonal by Imalist SUSE po aviousithèsecom upraviant (INSE Maintonal Delities on mittorial of the State on the Maintonia Committee on the State of the State o	Building and intermeted Electric Drives in Industry beld in Noscov on May 12-16, 1999. The Conference was called by the Academy of Sciences USES, the Constanting Consistent USES, the Conference was the Conference of the Conference of Confer	COVIDADA: The book is a sollection of reports submitted by scientific vorkers at places, scientific institutes and schools of higher submitted in the third latest and schools of higher submitted in the wholise fact that third conference on the automation of industrial freezesses in Weblies	FUNCOS: The collection of reports is intended for the solectific and technical pursonnel of scientific research institutes, plants and echools of higher education.	Gemeral Eds.: I.I. Petrov, A.L. Sirotis, and M.G. Chilikin; Eds.: I.I. Shi, and E.F. Shiayev; Tech. Eds.: E.P. Varonis, and G.Fs. Larionov.	Elaktroprived i avicantisatelys promyshlennyth ustanovek; trudy seveshchaniya (Electric Drive and automation in Industrial Systems Transactions of the Conformace) Moscow, Gesenstpoints; 1950. 470 p. 11,000 copies printed.	**Feanquancy** ob**pedizencey** soveabchaniy** po artomatistal proisteds tennyis protessor v mashicostroymili artomatisirvannom elektroprirods v promyshlen- mosti. 34, Moscow, 1999

L 16458-66
ACC NR: AP6009075

SOURCE CODE: UR/0105/65/000/004/0094/0094

AUTHOR: Alatortsev, S. A.; Blazhkin, A. T.; Gladilin, L. V.; Ivanov, A. A.;
Leybov, R. M.; Ozernyy, M. I.; Pirotskiy, P. P.; Rengevich, A. A.; Rozenman, Ye. A.;
Rys'yev, A. V.; Tulin, V. S.; Trop, A. Ye.

ORG: none

TITLE: Professor S. A. Volotkovskiy

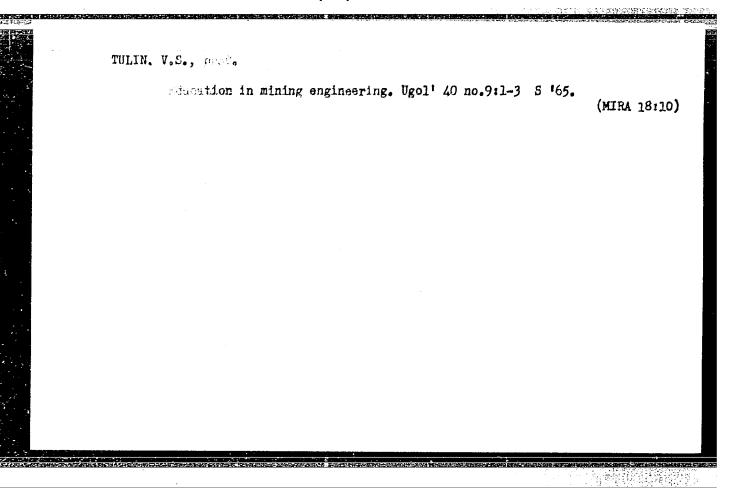
SOURCE: Elektrichestvo, no. 4, 1965, 94

TOPIC TAGS: electric engineering personnel, mining engineering

ABSTRACT: In this salute to Prof. Volotkovskiy on his 60th birthday, the dozen signers of the article state that he, as head of the department of electrification of mining operations and industrial enterprises of the D-epropetrovsk mining institute, has been a leader in the electrification and modernization of mining processes. In the field since 1920, Sorgey Andronikovich completed his studies in the Dnepropetrovsk mining institute. He worked in the institute from 1930-1941. He became a doctor of technical sciences and professor in 1950, while at the Sverdlovsk mining institute. He returned to the Dnepropetrovsk mining institute in 1959. A member of the party since 1927, he has published over 130 works. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 08, 09 / SUBM DATE: none

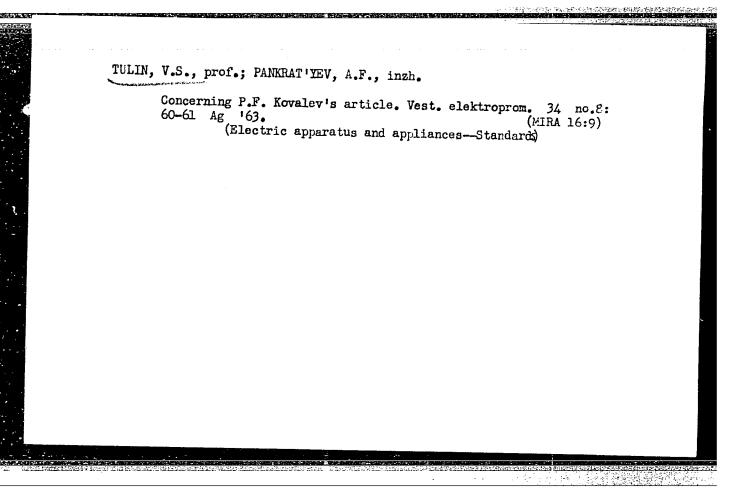
UDC: 622:621.311.002,5



KRAUS, E.G., inzh.; TULIN, V.S., prof. (Moskva)

Electric drives and automatic control in mining. Elektrichestvo no.8:86-91 Ag *63. (MIRA 16:10)

1. Karagandinskiy gosudarstvennyy inzhenerno-proyektnyy institut po proyektirovaniyu shakhtnogo stroitel*stva Karagandinskogo ugol*nogo basseyna (for Kraus).



YASNYY, Vadim Kononovich, inzh.; PANKRAT'YEV, Aleksandr Fedorovich, TULIN, V.S., doktor tekhn. nauk, prof., glav. red. toma; KOLESNIKOVA, V.G., red.; LEVIN, L.M., red.; PROSTIN, V.F., red.; TEREKHOV, S.D., red.; FOKINA, I.V., red.; OSVAL'D, E.Ya., red.izd-va; SABITOV, A., tekhn. red.

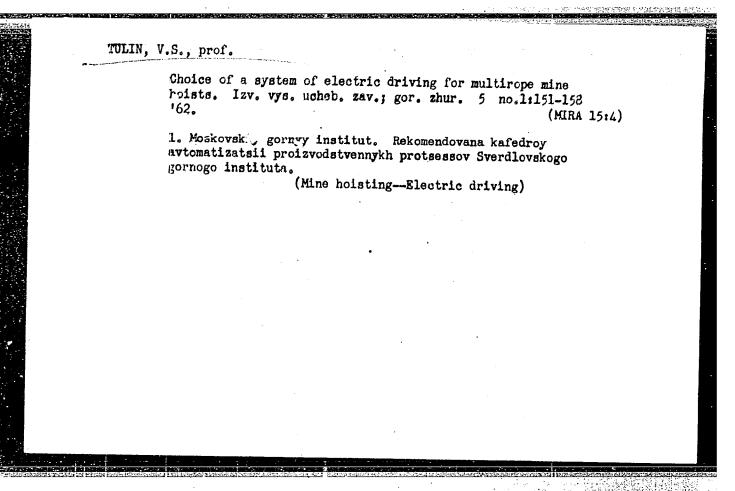
[The coal industry of capitalist countries] Ugol'naia promyshlennost' kapitalisticheskikh stran. Moskva, Gosgortekhizdat. Vol.4. Pt.l.[Electric supply, communication, signalization and lighting] Elektrosnabzhenie, sviaz', signalizatsiia i osveshchenie. 1963. 314 p. (MIRA 16:10) (Electricity in mining) (Mine communications)

TULIN, V.S., prof.

Basic trends in the use of a multirope drive on hoisting cages to raise the technical level of mine hoisting units. Izv. vys. ucheb. zav.; gor. zhur. 5 no.3:143-147 '62. (MIRA 15:7)

1. Moskovskiy gornyy institut. Rekomendovana kafedroy avtomatizatsii proizvodstvennykh protsessov Moskovskogo gornogo instituta.

(Mine hoisting)



Electric drives and automatic control in the mining industry.

Elektrichestvo no.3:1-5 Mr '62. (MIRA 15:2)

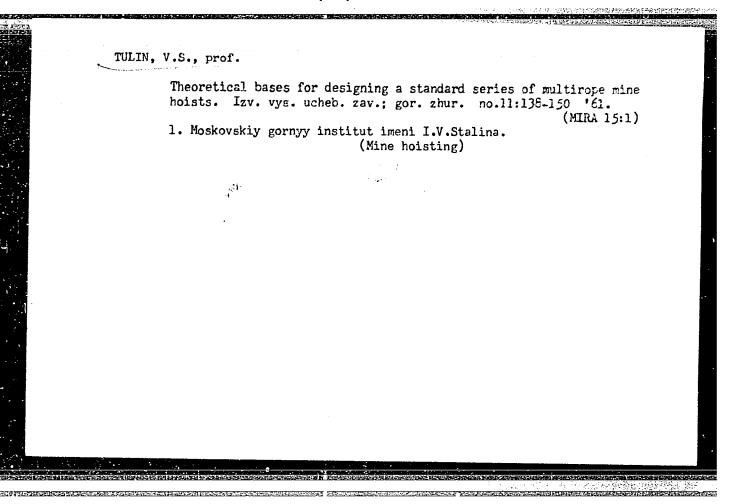
(Electric driving)

(Electric driving)

TULIN, V.S.

Theoretical principles for designing a normal row of automatically controlled electric drives of multicable mine hoists. Elektrichestvo no.10:12-19 0 '61. (MIRA 14:10)

1. Moskovskiy gornyy institut.
(Electric driving) (Electricity in mining)
(Hoisting machinery)



KHORUNZHIY, V.A.; red.; RIBAS, Yu.M., red.; BORISEVICH, Z.S., red.; VERTYACHIKH, V.G., red.; KOST'YEV, N.K., red.; MOVSESOV, N.S., red.; ZHIGULIN, Yu.V., red.; RAKOVICH, I.I., red.; HUVINSKIY, V.A., red.; TULIN, V.S., red.; FEFISOV, P.A., red.; FILIMOHOV, P.V., red.; IGLITSYN, I.L., red.; LARIONOV, G.Ye., tekhn.red.

[Rules for the manufacture of explosion-proof electric equipment]
Pravila izgotovleniia vzryvozashchishchennogo elektrooborudovaniia.
Moskva, Gos.energ.izd-vo, 1960. 54 p. (MIRA 13:11)

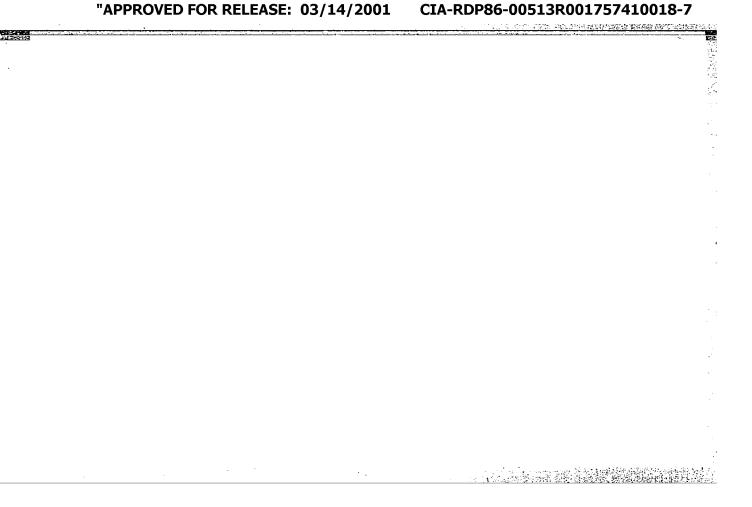
1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po avtomatizatsii i mashinostroyeniyu.

(Electric apparatus and appliances)

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757410018-7

TULIN, Vyacheslav Semenovich; ANTONOV, B.I., ved. red.

[Electric drives and the automatic control of multiplecable mine hoisting machines] Elektroprivod i avtomatika mnogokanatnykh rudnichnykh pod"emnykh mashin. Moskva, Nedra, 1964. 193 p. (MIRA 18:2)



APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757410018-7"

Effect of K-ray and nuclear irradiation on Bec. perfringens.
Report No.1: Changes in the morphology and sultural characteristics of type A and Bea. perfringens produced by the action of gammaneutron Irradiation. Mikrobiol. zbur. 25 no.1:10-16 163.

1. Institut mikrobiologii AN Ukrsch.

(MIRA 17:5)

LAK, G.Ts., TULINA, M.P., redaktor; MOLODISOVA, N.G., tekhnicheskiy redaktor.

[Diatomacece quaternary deposits of western Karelia.] Diatomovye chetvertichnykh otlozhenii Zapadnoi Karelii. Moskva, Izd-vo Akademii nauk SSSR, 1954. 12 p. plates. (MIRA 8:3) (Karelia-Diatoms, Fossil)

GAMBURTSHV, G.A., akademik [deceased]; VETTSMAN, P.S., TULIMA, Yu.V.

Structure of the earth's crust in the northern Tien Shan region,
as shown by seismic depth sounding. Dokl. AN SSSR 105 no.1:
83-86 N '55.

(Tien shan--Seismometry)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757410018-7"

GAMBURTSEV, G.A. [deceased]; VEYTSMAN, P.S.; DAVYDOVA, N.I.; TULINA, Yu.K.

Plutonic seismic sounding of the Earth's crust in northern Tien
Shan. Biul. Sov. po seism. no.3:11:23 '57. (MIRA 11:5)

(Tien Shan--Seismic waves)

TULINA, XV. V. AUTHORS: Kosminskaya, I. P. and Tulina, Yu. V. 49-7-3/14

TITLE: Experience gained in using the method of deep seismic probing for studying the structure of the Earth's crust in certain regions of Western Turkmenia. (Opyt primeneniya metoda glubinnogo seysmicheskogo zondirovaniya dlya izucheniya stroyeniya zemnoy kory nekotorykh rayonov zapadnoy Turkmenii).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1957, No.7, pp. 874-894 + 4 plates. (USSR)

ABSTRACT: Special studies were made in 1952 of the structure with the depth of some regions of Western Turkmenia in conjunction with detailed investigation of the seismicity of Turkmenia. For this purpose a method of deep seismic sounding was used which was proposed by G. A. Gamburtsev and developed in the Geophysics Institute, Ac.Sc. U.S.S.R. (Geofizicheskiy Institut AN SSSR) under his leadership (Refs.l and 2). The fundamental task of these investigations was to clarify the character of the deep boundaries of division in the region of grouping of the main geological structures which occur in the region under consideration. These structures include the mountain ridges Kopet-Dag, Bolshoy Balkhan, the Predkopetdagskiy bend and the Trans-Caspian lowland. Under "deep boundaries" the authors understand boundaries located

49-7-3/14

Experience gained in using the method of deep seismic probing for studying the structure of the Earth's crust in certain regions of Western Turkmenia. (Cont.)

at depths between 5 and several tens of km, the investigation of which is accessible by ordinary geological and geophysical prospecting methods. The work was carried out by the Geophysics Institute, Ac.Sc., U.S.S.R. and the Central Asian Trust (GLAVNEFTGEOFIZIKA) of the Ministry of It was assumed that in investigating the Oil Industry. the deep structure of the region certain problems will be solved relating to increasing the depth of possible seismic prospecting under the conditions pertaining in Turkmenia. The field observations as well as the interpretation of the results were carried out under the scientific guidance of G. A. Gamburtsev. In addition to the authors, a number of people from the Geophysics Institute participated in the field work. The technical chief was N. Ye. Fedoseyenko, the field work was carried out, under the supervision of M. A. Zayonchkovskiy, by E. I. Zelikman and S. A. Kulikov guided the work at the point of explosion. The chief engineer of SREDAZNEFTEGEOFIZIKA, Yu. N. Godin participated in commenting on the plans of the work and interpretation of the results. The basic results obtained are described in

Card 2/5

49-7-3/14 Experience gained in using the method of deep seismic probing for studying the structure of the Earth's crust in certain regions of Western Turkmenia. (Cont.)

this paper. The features are described of the seismic boundaries located at various depths and the corresponding strata of the paleozoic, granite, basalt and the subcrust layers. Schematic maps are given of the surfaces of the paleozoic stratum and of the thickness of the Earth's crust. The maximum thickness of the crust is in the Trans-Caspian Lowland (over 40 km), the minimum thickness (below 30 km) The dimensions of the Earth's is at the Bolshoy Balkhan. crust are compared with the depth of tremors of weak earthquakes recorded by means of high sensitivity stations It was found that the South Western regions of Turkmenia are favourable for recording distant explosions (100 to 250 km) which are applied for deep seismic sounding. Groups of waves were recorded which correspond to division boundaries within a wide range of depths, from prospected depths of 3 to 10 km to the depths of the basalt and the subcrust layers (20 to 45 km). It was found that by changing over to lower frequencies (10 to 20 c.p.s.) and utilising distant explosions it is possible to increase appreciably the depth of prospecting by the method of refracted waves. At

Card 3/5

49-7-3/14

Experience gained in using the method of deep seismic probing for studying the structure of the Earth's crust in certain regions of Western Turkmenia. (Cont.)

distances of 30 to 80 km from the point of explosion it is possible to study division boundaries located at depths of 3 to 10 km; by means of deep seismic sounding methods it is possible to record distant explosions produced not only in water reservoirs but also in wells. The character of the recordings indicates the complex seismo-geological structure of South Western Turkmenia in the entire range of depths. For elucidating the character of the behaviour of deep horizons, it is necessary to take it o consideration the influence of the seismic boundaries located above them. For this purpose it is advisable to combine deep seismic sounding with the correlation method of refracted waves, described by Gamburtsev et alii (Ref.16). Comparison of the recordings of P* and P waves made in Turkmenia with those obtained in Tyan'-Shan (Refs.6 and 7) indicate that the kinematic and dynamic features of the groups of waves are similar in both regions. The groups consist of a large number of individual waves due apparently to the complex structure of the layers in the Earth's crust. Elucidation of the nature of the successive waves in the groups is one

ard 4/5

Experience gained in using the method of deep seismic probing for studying the structure of the Earth's crust in certain regions of Western Turkmenia. (Cont.)

of the fundamental tasks of developing further the method detected in Turkmenia, the least deep one is that of the surface of the paleozoic foundation; the deeper ones are those of the granite, basalt and subcrust layers respectively. The characteristics of the individual boundaries are described in some detail. Comparison of the sections of deep seismological sounding with the depth of the foci of weak earth tremors recorded by KWN3 stations indicate that the tremors of the fundamental groups of earthquakes are concentrated in the granite, in the basalt layer and in the lower boundary of this layer.
There are 20 figures, 2 tables and 18 references, 16 of which are Slavic.

Card 5/5

SUBMITTED: December 8, 1956.

ASSOCIATION: Institute of Physics of the Earth, Ac.Sc., U.S.S.R. (Akademiya Nauk SSSR Institut Fiziki Zemli).

AVAILABLE: Library of Congress

TVAINTADZE, G.K.; KOSMINSKATA, I.P.; MURUSIDZE, G.Ya.; MIKHOTA, G.G.;

IOSELIANI, M.S.; TULINA, Yu.Y.

Besults of studies of the surface of the crystalline foundation of the western part of the Gori-Mukhrani depression by seismic methods. Trudy Inst. geofiz. AN Gruz. SSR 16:135-161 *57.

(Gaorgia--Geology, Structural) (MIRA 11:6)

(Seismic waves)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757410018-7"

SOV/49 -58-10-2/15

AUTHORS: Kosminskaya, I. P., Mikhota, G. G. and Tulina, Yu. V.

The Structure of the Earth's Crust in the Pamir -Alay Zone According to the Data of Deep Seismic Sounding (Stroyeniye zemnoy kory v Pamiro-Alayskoy zone po dannym glubinnogo seysmicheskogo zondirovaniya)

PERIODICAL: Izvestiya Akademii Nauk SSSR, seriya geofizicheskaya, 1958, Nr 10, pp 1162-1180 (and 2 plates) (USSR)

Work on deep seismic sounding in the Pamir -Alay Zone was suggested by Academician G. A. Gamburtsev. It was ABSTRACT: carried out under his direction and was a continuation of geological and geophysical explorations which have recently been carried out by the Geophysical Institute of the Academy of Sciences of the USSR in seismically active regions of Middle Asia in order to study the physics of earthquakes. The work reported in this paper was carried out by an expedition which was directed by I. L. Nersesov and L. E. Aronov. The geological structure of various parts of the Pamir -Alay Zore has been studied previously and results

Card 1/3

sov/49 -58-10-2/15

The Structure of the Earth's Crust in the Pamir-Alay Zone According to the Data of Deep Seismic Sounding

were reported in Refs.2-11. As a result of the present work it was established that the structure of the earth's crust in mountain regions may be investigated by deep seismic sounding. General features of the structure of the earth's crust in some regions of Southern Tian Shan' and Northern Pamir were obtained. The Mohorovičić surface and the surface of the basalt layer in this region have similar trends and extend from North-East to South-West. The depth of the basalt layer is between 15 and 40 km and the depth of the Mohorovičić surface is between 45 and 70 km. The following regularities have been deduced from profiles of the earth's crust in the Pamir-Alay Zone:

- a) in the transition from platform regions to mountain regions a considerable increase in the thickness of the earth's crust was observed within the range 30-70 km;
- b) in mountain regions plutonic boundaries have complex profiles with depressions or elevations of 15 km or more, and inclinations up to 10-120;
- c) in mountain regions differences have been found in the Card 2/3 structure of the earth's crust between Hercynian and Alpine

SOV/49 -58-10-2/15

The Structure of the Earth's Crust in the Pamir-Alay Zone According to the Data of Deep Seismic Sounding

foldings. Thus in Northern and Southern Tian Shan the basalt layer has a large thickness while in the Northern Pamir the granite layer has a large thickness. A comparison of seismic data obtained during the above expedition with gravitational data for a number of regions in Middle Asia has shown that the character of the gravitational field is governed mainly by the form and the position of the Mohorovičić surface. The basalt layer is important in connection with the origin of anomalies. The maximum (in the USSR) negative anomaly was found in Northern Pamir (-450 mgl). There are 2 tables, 14 figures and 32 references, of which 29 are Soviet, 2 are English and 1 is German.

ASSOCIATION: Akademiya nauk SSSR, Institut fiziki Zemli (Academy of Sciences of the USSR, Institute of Physics of the Earth)

SUBMITTED: August 26, 1957.

Card 3/3

AVER'YANOV, A.G.; VAYTSHAN, P.S.; GAL'BERIN, Ye.I.; ZVEREV, S.M.; ZAYONCHKOVSKIY, M.A.; KOSMIMSKAYA, I.P.; KRAKSHINA, R.M.; MIKHOTA, G.G.; TULINA, YU.V.

Deep seismic sounding in the transition zone between the continent of Asia and the Pacific Ocean during the International Goophysical Year. Izv. AN SSSR. Ser. geofiz. no. 2:169-184 F '61. (MIRA 14:2)

1. Institut fiziki Zemli AN SSSR.
(Soviet Far East-Seismometry)
(Earth-Surface)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757410018-7"

1、多种的是这种类似的

S/049/61/000/005/012/013 D207/D306

AUTHOR:

Tulina, Yu. V.

TITLE:

Conference on deep seismic sounding

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya geofiziches-

kaya, no. 5, 1961, 748-750

TEXT: A conference on deep seismic sounding (DSS) of the earth's crust was held at the Institut fiziki zemli AN SSSR (Institute of Physics of the Earth, AS USSR) / Abstractor's note: Subsequently abbreviated to IPE / between November 14 - 19, 1960. The Conference was convened by the IPE, by the Sovet razvedochnoy geofiziki pri Prezidiume AN SSSR (Council for Prospecting Geophysics of the Presidium of AS USSR), and by the Geofizicheskiy otdel i Vseso-Presidium of AS USSR), and by the Geofizicheskiy otdel i Vseso-yuznyy institut geofizicheskikh metodov razvedki Ministerstva yuznyy institut geofizicheskikh metodov razvedki Ministerstva geologii i okhrany nedr SSSR (Geophysics Department and All-Union geologii i okhrany nedr SSSR (Geophysics Department and All-Union Institute for Geophysical Prospecting Methods, Ministry of Geology and Protection of Mineral Resources of the USSR). There were 190 participants representing 48 organizations, which included 21 Card 1/6

S/049/61/000/005/012/013 D207/D306

Conference on deep seismic ...

where work on deep seismic sounding (DSS) is carried out. Thirtysix papers were presented at the Conference. The introductory paper dealing with the importance of DSS was presented by Corresponding Member of AS USSR, V.V. Belousov. The papers presented at the Conference can be divided into three groups, dealing with the following subjects: 1) Field observations and interpretation of primary DSS data; 2) nature of waves coming from great depths, as recorded in various parts of the Soviet Union, and their physical interpretation; 3) improvement of DSS apparatus. The first group included the following: A collective paper by workers at the IPE and at the VNIIGeofiziki (All-Union Scientifi Research Institute of Geophysics) which dealt with the observational techniques and which was presented by Ye. I. Gal'perin; a paper of Ye. D. Tagay and N. P. Ivanova on recording waves reflected from deep-lying discontinuities; a paper of V. Z. Ryaboy and G. G. Shteynberg on the "RNP method" in its laboratory modification. The second group included papers on: Applications of DSS methods to various seismogeological structures which can be found in the USSR (I. V. Litvinenko, I. V. Pomerantseva, A.V. Yegorkin, K. Ye. Fomenko, A. A. Card 2/6

Conference on deep seismic ...

S/049/61/000/005/012/013 D207/D306

Popov, B. S. and I. S. Vol'vovskiy, P. S. Veytsman, B. D. Trebu-kova, Yu. P. Neprochnov, R. M. Krakshina, T. L. Vasi'yeva, I. I. Davydova, I. P. Kosminskaya); extensive DSS data on waves in continental, oceanic and intermediate types of crustal structure (I. P. Kosminskaya); extensive DSS data on waves from different layers of the earth's crust (B. S. and I. I. Vol'vovskiy, I. V. Pomerantseva, I. V. Margot'yeva, A.V. Yegorkin); theoretical calculations dealing with DSS interpretation (A. S. Alekseyev); analysis of experimental data and calculations based on several models (A. M. Yepinat'yeva, A. G. Aver'yanov); crustal composition and geophysical problems which can be solved by means of DSS (Yu. N. Godin, who suggested that wave velocities should increase with depth and was supported in this by I. A. Rezanov). Yu. N. Godin was of the opinion that it is too early to use DSS methods on a wide scale. This viewpoint was criticized by B. B. Tal'virskiy, B. A. Petrushevskaya, I. P. Kosminskaya, V. V. Fedynskiy and others who stressed that DSS methods are ready for practical use, that DSS is also of theoretical importance and that both very detailed and less detailed large-scale DSS observations are needed Card 3/6

S/049/61/000/005/012/013 D207/D306

Conference on deep seismic ...

(this last question was also dealt with by S. I. Subbotin, A. T. Donabedov, I. K. Tuyezov and others). The second group of papers included also work on the nature of waves, seismic discontinuities and crustal structure (A. M. Yepinat'yeva, Ye. M. Rudich, G. N. Pariyskaya, I. V. Litvinenko), on physical characteristics of the earth's crust under various conditions (M. P. Volarovich, F. M. Lyakhovitskiy), on theoretical investigations and calculations (A. S. Alekseyev, A. G. Aver'yanov), on comparison of seismic and gravimetric data on the crustal structure (R. M. Demenitskaya, N. K. Bulin, V. I. Shraybman), on observational techniques (M. A. Zayonchkovskiy), and on analysis of seismograms of earthquakes and strong explosions (S. I. Masarskiy, N. K. Bulin, Ye. M. Bu-tovskaya, D. D. Sultanov). Unfortunately there were only a few papers in the third group dealing with the very urgent problem of improvement of DSS apparatus. Faults of DSS instruments and methods for improvement were discussed by A. N. Mozzhenko. S. I. Ivanov reported that a radioseismic station was constructed at VITR but its serious production has been postponed several times. Use of radio buoys in the Black Sea was reported by Yu. P. Nep-

CHARLEST NO.

S/049/61/000/005/012/013 D207/D306

Conference on deep seismic ...

rochnov and G. N. Lunarskiy. V. S. Voyutskiy proposed an "accumulation method" as a means of improving the sensitivity of DSS. instruments working on dry land. Several papers deal with general problems which are of interest in other geophysical prospecting methods: Dependence of the intensity and of the frequency spectrum of waves on the weight of an explosive charge (G. G. Mikhota), low-frequency seismic prospecting (L. L. Khudzinskiy), combination of several geophysical methods for the study of the crustal structure (R. M. Demenitskaya). The Conference recommended:1) Continuation and extension of DSS work on dry land and at sea for determining the total thickness and the structure of the earth's crust as well as the thickness of the sedimentary layer; 2) improvement of experimental DSS techniques during the next 2 - 3 years by intensive work at the research institutes; 3) continuation and extension of work on dynamic characteristics of DSS waves, and on interpreting hodographs of refracted and reflected waves; 4) development of new DSS apparatus using the latest developments in electronic engineering and instrument construction; 5) collation, in the next 3 years, of all DSS data obtained during the last ten Card 5/6

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757410018-7

Conference on deep seismic ...

S/049/61/000/005/012/013 D207/D306

years in the Soviet Union; 6) publication of the proceedings of the Conference which was the first of this type in the USSR.

Card 6/6